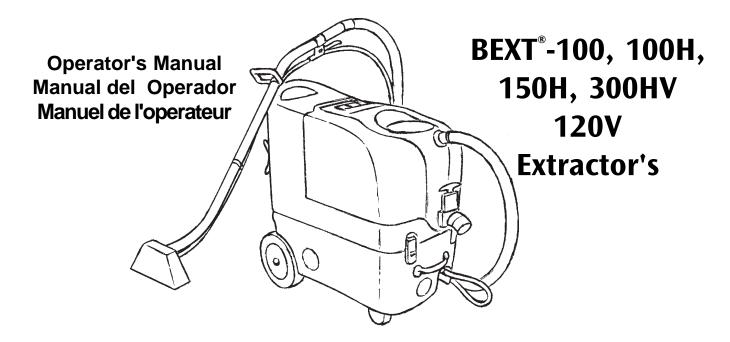
Clarke®



READ THIS BOOK

This book has important information for the use and safe operation of this machine. Failure to read this book prior to operating or attempting any service or maintenance procedure to your Clarke machine could result in injury to you or to other personnel; damage to the machine or to other property could occur as well. You must have training in the operation of this machine before using it. If your operator(s) cannot read English, have this manual explained fully before attempting to operate this machine.

Si Ud. o sus operadores no pueden leer el Inglés, se hagan explicar este manual completamente antes de tratar el manejo o servicio de esta máquina.

All directions given in this book are as seen from the operator's position at the rear of the machine.

For new books write to: Clarke®, 2100 Highway 265, Springdale, Arkansas 72764.

CONTENTS OF THIS BOOK

Operator Safety Instructions	
Introduction and Machine Specifications	
Controls and Machine Features	
How to Prepare the Machine for Operation	
Set-Up	
Bext®-100 Control Panel	
BEXT®-100H Control Panel	
BEXT®-150H Control Panel	18
BEXT®-300HV Control Panel	18
Instructions for Connection to the Power Supply - 120V	
Extension Cords - 120V	20
Machine Operating Instructions	22
How to Clean an Area of Carpet	22
How To clean a Larger Area of Carpet	22
Maintenance	24
After Each Use of the Machine	24
How to Prevent Damage from Freezing Temperatures	26
The Pump and Vacuum Motor	
How To Check The Commutator and The Carbon Brushes	28
How to Correct Problems in the Machine	30
BEXT®-100 Assembly Drawing	34
Parts List	
BEXT®-100H Assembly Drawing	36
Parts List	
BEXT®-150H Assembly Drawing	38
Parts List	39
BEXT®-300HV Assembly Drawing	40
Parts List	41
BEXT®-100 Accessories	42
BEXT®-100H Accessories	
BEXT®-150H Accessories	
BEXT®-300HV Accessories	
Control Panel Wiring Diagram	46
Floatrical Schomatic 120V	

OPERATOR SAFETY INSTRUCTIONS



WARNING





For the safe operation of this machine, read and understand all warnings and cautions.

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DANGER means: Severe bodily injury or death can occur to you or other personnel if

the **DANGER** statements found on your machine or in your Owner's Manual are ignored or are not adhered to. Read and observe all **DANGER** statements found in your Owner's Manual and on your

machine.

 \mathbf{A}

WARNING means: Injury can occur to you or to other personnel if the WARNING

statements found on your machine or in your Owner's Manual are ignored or are not adhered to. Read and observe all **WARNING** statements found in your Owner's Manual and on your machine.

A

CAUTION means: Damage can occur to the machine or to other property if the

CAUTION statements found on your machine or in your Owner's Manual are ignored or not adhered to. Read and observe all **CAUTION** statements found in your Owner's Manual and on

your machine.

 $\mathbf{\Lambda}$

DANGER: Machines can cause an explosion when operated near flammable materials and vapors. Do not

use this machine with or near fuels, grain dust, solvents, thinners, or other flammable materials.

A

DANGER: Do not immerse. To reduce the risk of an electric shock, use only on a carpet that has been

moistened by a cleaning process. Protect the machine from rain. Keep the machine in a dry

building. Always clean the machine with a clean dry cloth.

A v

WARNING: You must have training in the operation of this machine before using it. READ THE

INSTRUCTION BOOK FIRST.

WARNING:

Always use a three-wire electrical system connected to the electrical ground. For maximum

protection against electric shock, use a circuit that is protected by a ground fault circuit

interrupter. Consult your electrical contractor.

WARNING: To prevent electric shock, always remove the electrical plug from the electrical outlet before

doing any repairs or maintenance to this machine.

WARNING: Do not use this machine as a step or furniture. Injury could occur to the operator.

WARNING: To avoid serious injury, use proper lifting procedures when lifting the machine.

WARNING: Maintenance and repairs must be done by authorized personnel only.

WARNING: Keep all fasteners tight. Keep the adjustments according to specifications.

WARNING: Make sure that all the labels, decals, warnings, cautions and instructions are fastened to the

machine. Replace them when necessary by ordering them from Clarke.

WARNING: Do not use water that is hotter than 120° F (40° C).

WARNING: If foam/liquid comes out, stop extracting immediately. Allow vacuum('s) to run until exhaust

air is dry.

OPERATOR SAFETY INSTRUCTIONS (CONT.)

WARNING: Improper discharge of waste water may damage the environment and be illegal. The United States Environmental Protection Agency has established certain regulations regarding discharge of waste water. Also, city and state regulation regarding this discharge may be in effect in your area. Understand and follow the regulations in your area. Be aware of the environmental hazards of chemicals that you dispose.

CAUTION:

To prevent damage to the power cord, do not move this machine over the power cord, instead, lift the power cord over the machine. If the cord supplied is damaged, it must be replaced by the manufacturer, its service agent or a similarly qualifed person in order to avoid the hazard.

CAUTION:

To prevent damage to the power cord and hoses, do not use the power cord or hoses to pull

the machine.

To prevent damage to the machine avoid extreme temperatures.

To prevent damage to the machine do not let pump run dry.

INSPECTION: Carfefully unpack and inspect your new Extractor for shipping damage. Each unit is tested and inspected before shipment. Any damage incurred is the responsibility of the carrier, who should be notified immediately.

CLEANING SOLUTIONS: We recommend liquid cleaning chemicals. A pH of 7-9 is strongly recommended to avoid premature pump wear, which would voide the warranty.

INTRODUCTION and MACHINE SPECIFICATIONS

- The Model Bext*-100, 100H, 150H or 300HV is an extractor for cleaning carpet. When used with a floor tool, the machine applies cleaning solution to the carpet and removes the dirty solution and soil from the carpet.
- The extractor has controls to start the pump for the solution and the motor for the vacuum. The floor tools have controls to release the solution.
- The extractor has a bypass pump. The pump runs when switched on, bypassing solution internally to keep pressure even. The extractor starts when the solution lever on the floor tool is activated.

SPECIFICATIONS	Bext 100	Bext 100H	Bext 150H	Bext 300H			
		Bext 100H Detailer	Bext 150H Detailer				
Part Number	04156A	04157A / 04158A	04147A / 04152A	04148A			
Solution Tank	9 gallon rotat	ionally molded	13 gallon rota	tionally molded			
Solutin Pump	100 psi de	mand pump	150 psi demand pump	300 psi demand pump			
Vacuum Motor	5.7",	3 stage	(2) - 5.7" 2-stage	7.2" 3-stage			
Waterlift	14	lO"	150"	140"			
Easy Circuit Locator	N/A	Standard	Standard	Standard			
On-board Heater	N/A	N/A Standard Standard		Standard			
Wand		Double bend twin nozzl	e polished stainless steel				
Power Cable	25 ft. 12-3 hosp.	(2) 25 ft. 12-3 hosp. grade plu	ıg			
	grade plug						
Wheels	(2) 8" non-markir	ng & (2) 3" casters	(2) 10" non-markii	ng & (2) 2" casters			
Hose	1	5 ft. crushproof vacuum ar	nd high pressure solution lin	е			
Low Moisture System		Standard					
Float Shut-Off		Standard					
Weight	69 lbs.	75 lbs.	90 lbs.	119 lbs.			
Warranty	Product Lif	roduct Lifetime (10 years) on tank and mainframe; 1 year Parts and labor					

NOTE: When using the extractor to clean carpets, follow this procedure:

- Do not walk on freshly cleaned carpets for at least four hours or until the carpet is dry to touch.
- Do not remove aluminum or plastic pieces that have been placed under the legs of furniture until the carpet is dry.
- Do not allow children or pets to crawl or walk around on the damp carpet.
- Vacuum right after the carpet is dry and then vacuum the carpet once a week as needed.

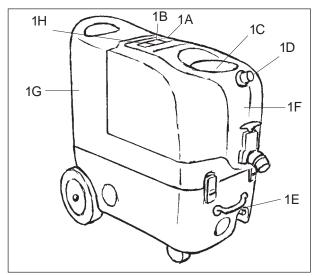


Figure 1

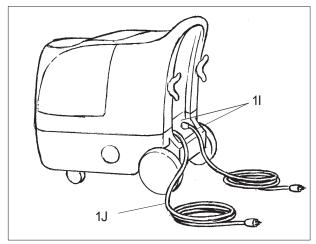


Figure 1

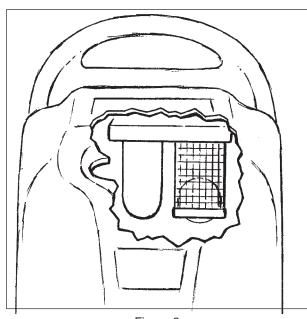


Figure 2

CONTROLS and MACHINE FEATURES

<u>The Vacuum Motor Switches</u> See Figure 1-A
The vacuum motor switches are located on the top of the machine.

The Switch To Activate The Pump See Figure 1-B The switch to start/stop the pump motor is on the top of the machine. Press the lever on the floor tool to start the solution flow. Release the lever on the floor tool to stop the solution flow.

NOTE: While the BEXT-150 machine is in operation, the pump will shut-off automatically when it reaches full pressure. The pump will automatically turn on when the pressure decreases.

The Float Shut-Off -See Figure 1C

The float shut-off is in the recovery tank. When the liquid raises the float, the air stops moving through the machine.

NOTE: To avoid vacuum motor damage, always inspect the float filter and ball. Verify ball travels easily prior to use of unit. See Figure 2

The Vacuum Hose Connector See figure 1D The vacuum hose connector is on the front of the unit.

<u>The Solution Hose Connector</u> See Figure 1E The solution hose connector is on the lower part of the extractor, below the vacuum hose connector.

The Recovery Tank See Figure 1F
The recovery tank is in the top of the machine.

The Solution Tank See Figure 1G

The solution tank is in the top of the machine next to the recovery tank.

Electric Circuit Locator See Figure 1H

This unique, patented "smart system", operated by a solid state circuit, will inform the operator when the two cords are plugged into separate circuits by illuminating the "Locator" indicator light. This helps prevent tripping circuit breakers.

NOTE: Ground plug on the cord is required to allow circuit locator to operate correctly. The system will not function without proper ground.

The Machine Power Cord (Red "H") See Figure 11 This cord powers all machine functions except the heater.

<u>The Heater Power Cord</u> See Figure 1J This cord powers heater only.

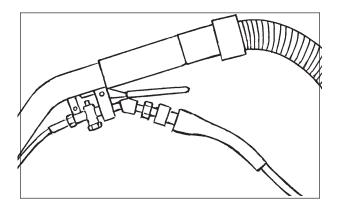


Figure 3A

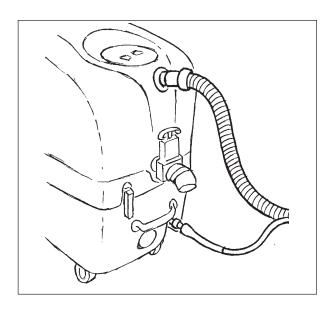


Figure 3B

HOW TO PREPARE THE MACHINE FOR OPERATION

To prepare the machine for operation, follow this procedure:

- Connect the vacuum hose to the hose connector on the extractor and to the end of the vacuum tube on the floor tool. See Figure 1 D, E
- Connect the solution hose to the extractor and the floor tool. To fasten the quick disconnect fitting, slide the knurled collar on the female coupling away from the opening. Push the male coupling into the female coupling. See figure 3 A & B

WARNING: Do not use water that is hotter than 120°F (48°C).

- Before moving the extractor onto the carpet, put clean hot water into the solution tank.
- Add a cleaning chemical, such as Clarkare® Extractor Concentrate, to the hot water. For the correct amount, follow the directions shown on the container.

Set-Up



We recommend that you use liquid cleaning chemicals. Powder can damage machine. Powders can cause build-up in the lines, heater, pump, quick disconnects, etc., all of which would void the warranty on those items. A pH of 7-9 is strongly recommended to avoid damage and premature wear to the pump, which would void the warranty.

Fill the holding tank with clear water and the detergent of your choice. Mix well. Although this machine is designed to supply instant hot water, the addition of warm or hot water to the holding tank is beneficial and will reduce pre-heat times

- A Plug in cord #1 (vac and pump), identified by the red "H" on the end of the cord. Attach the priming hose to the machine (on 300 HV only). Turn the pump on and set the switch to the upholstery setting. Run until the pump is fully primed, then turn off the pump. Remove the priming hose and attach the cleaning hoses and tool.
- B. Turn on the pump and spray through the cleaning tool for a few seconds to fill the lines with solution.

BEXT® 100H, 150H & 300HV

C. Plug in cord #2. The "Locator" light will illuminate when the cords are plugged into separate circuits. Turn the "Heat" switch on; wait two minutes for the heat exchanger to reach operating temperature. You may now begin cleaning. It will take about 10 seconds for the initial heat to reach the wand. The "Mode" light will turn on when the heat exchanger is actively heating. (See Figures 5, 6 and 7)

NOTE: If the "Locator" indicator light does not illuminate when cord #2 is plugged in, then both cords are on the same line. Try other outlets until the light comes on.



If both cords are plugged into the same circuit breaker, the breaker may blow when operating with the heater on.

5. If the extractor removes an excess amount of foam from the carpet, add a de-foamer such as Clarkare® De-foamer Concentrate to the recovery tank. The amount needed will vary according to the amount of detergent already in the carpet.



To prevent damage, use a water-based defoamer rather than an oil-based de-foamer. Do not leave the extractor or other cleaning machines or tools on the carpet when not in use. Cleaning solution in the machines and tools can leak onto the carpet and cause light spots or stains.

NOTE:

To order Clarkare® Extractor Concentrate, order part no. 398421. To order Clarkare® Defoamer, order part no. 398420.

For instructions for preparation and operation of your floor tool, read the instruction sheet given with your floor tool.

BEXT®-100 Control Panel

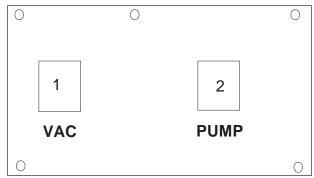


Figure 4

VACUUM SWITCH (1): The vac switches illuminate when turned on.

PUMP SWITCH (2): This switch will illuminate when the pump is on.

BEXT®-100H Control Panel

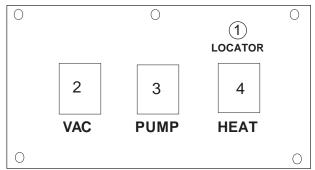


Figure 5

CIRCUIT LOCATOR (1): When this light is on, it indicates that cord #2 is on a separate line from cord #1. Cord #2 supplies voltage to the heater allowing it to heat to the proper temperature range.

VACUUM SWITCH (2): The vacuum switch will illuminate when the vacuum motor is turned on.

PUMP SWITCH (3): This switch will illuminate when the pump is on.

HEAT SWITCH (4): The heat switch will illuminate when it is activated and will turn the heater on.

BEXT®-150 H Control Panel

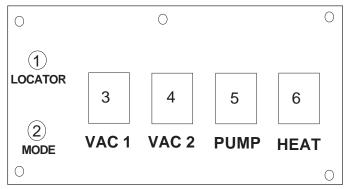


Figure 6

CIRCUIT LOCATOR (1): When this light is on, it indicates that cord #2 is on a separate line from cord #1. Cord #2 supplies voltage to the heater allowing it to heat to the proper temperature range.

HEAT MODE LIGHT (2): This light will only illuminate when the heater is heating and will turn off when it reaches operating temperature.

VACUUM SWITCH (3 & 4): Each switch turns on one vac motor. turn both switches on for maximum lift. The vac switches illuminate when turned on.

PUMP SWITCH (5): This switch will illuminate when the pump is on.

HEAT SWITCH (6): The heat switch will illuminate when it is activated and will turn the heater on.

BEXT®-300 HV Control Panel

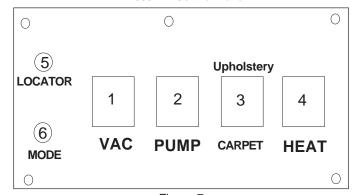


Figure 7

VAC(1) & PUMP(2) SWITCHES: These switches are powered by cord #1 (4" red band). Switches are on when illuminated.

CARPET / UPHOLSTERY SWITCH (3): This switch is also powered by cord #1. The carpet setting (down position) is high pressure (approximately 300 psi). The upholstery setting (up position) is low pressure (approximately 75 psi). NOTE: Switch does not illuminate.

HEAT SWITCH (4): Turning on this switch (switch illuminates when on) turns the heater on.

GREEN CIRCUIT LOCATOR LIGHT (5): When this light is illuminated, it confirms that the machine is on two separate circuits. See previous page for additional information on the circuit locator.

HEAT LIGHT MODE (6): The light will only illuminate when the heater uis heating and will turn off when it reaches operating temperature.

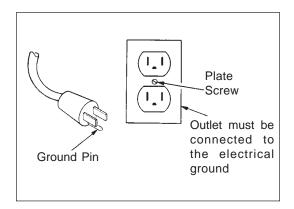


Figure 7

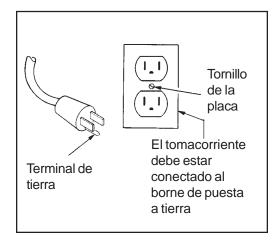


Figura 7

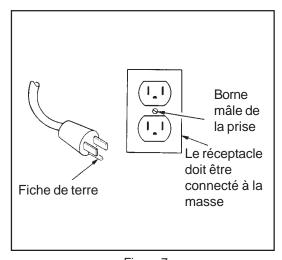


Figure 7

INSTRUCTIONS FOR CONNECTION TO THE POWER SUPPLY AND ELECTRICAL GROUND - 120 V



CAUTION: This machine will operate only on an AC frequency and on the specified electrical voltage shown on the nameplate. Make sure you have the correct frequency and voltage before connecting the power cord to an out-

This machine must be connected to an electrically grounded circuit in order to protect the operator from electric shock. This machine has an approved power cord with three conductors as well as a plug with three terminals. Connect the plug to a three holed receptacle. For maximum protection against electric shock, use a circuit that is protected by a ground fault circuit interrupter.

This machine uses a 120 volt AC 50/60 cycle electrical circuit. Make sure you have the correct frequency and voltage before connecting the power cord to an outlet. The machine has a plug as shown in Figure 7. If a receptacle connected to the electrical ground as shown in Figure 7 is not available, contact an electrical contractor. Do not use an adapter.

WARNING: To prevent possible electric shock, protect the machine from rain. Keep

the machine in a dry building.

WARNING: To prevent possible electric shock, always use a 3-wire electrical system connected to the electrical ground. For maximum protection against electrical shock, use a circuit that is protected by a ground fault circuit interrupter. Consult your electrical contractor.

MARNING: Do not cut, remove, or break the ground pin. If the outlet does not fit the plug, consult your electrical con-

tractor.

■ WARNING: If the cords or plugs are worn or damaged in any way, have them replaced by an authorized service person.

Extension Cords

Use only an approved extension cord with three conductors, a plug with three terminals and a three-holed connector body. This machine has a power cord with a wire size of 12 AWG. (AWG stands for American Wire Gauge).

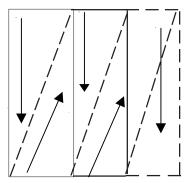
A CAUTION:

If you use an extension cord, use one that has a minimum wire size of 12 AWG. Be sure your extension cord is no longer than 50 ft. Do not join two extension cords.

Area 1 See figure 8

Superficie 1. Vea la Figura 8

Zone 1 Voir figure 8



Vacuum only, after cleaning each area for maximum water removal Para eliminar la mayor cantidad de agua posible sólo realice la aspiración después de limpiar cada superficie

Aspiration seulement, après nettoyage de chaque zone pour une élimination maximum de l'eau

Figure 8A

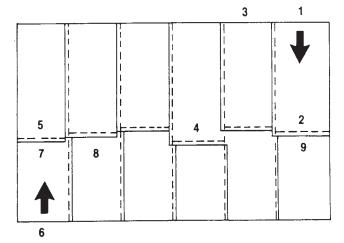


Figure 8B

MACHINE OPERATING INSTRUCTIONS

How to Clean an Area of Carpet See Figure 8A

WARNING:

Do not use water that is hotter than 120°F (48°C).

To clean an area of carpet, follow this procedure:

- 1. Start the pump for the solution and the motor for the vacuum on the extractor.
- 2. Begin at the right-hand corner of the carpet.
- 3. Hold the floor tool at the angle that gives the best vacuum seal between the tool and the carpet.
- 4. Apply pressure to the lever for solution release. Pull the tool toward you at a slow, steady speed. To remove as much solution as possible, release the lever before you stop moving backward. Push tool away over the same area while moving tool to next position. (Repeat process)
- 5. To clean the edge of a room, move the tool along the baseboard until the edge of all the carpet is cleaned.
- 6. To clean a small area of carpet, clean the carpet in sections three feet square. As you make more passes, repeat one inch of the area already cleaned.
- 7. To remove more liquid from the carpet, make passes over the area already cleaned, but do not apply pressure to the lever for the solution.

How To Clean A Larger Area Of Carpet See Fig. 8B To clean a larger area of carpet, follow this procedure:

- 1. Begin at the right-hand corner of the carpet.
- 2. Make a pass halfway along the edge of the carpet. Pull the tool backward at a steady speed.
- 3. Move to the edge of the carpet. Make another pass next to your first pass.
- 4. As you make more passes, repeat one inch of the area already cleaned. If you use a power brush tool, repeat one inch of the area already cleaned by the brush. Make each pass four inches different in length to prevent making a line in the center of the carpet.
- 5. Make more passes until half of the carpet is cleaned. To remove more liquid from the carpet, make passes over the area already cleaned, but do not apply pressure to the lever for the solution.
- 6. Move to the right-hand corner of the part of the carpet not yet cleaned.
- 7. Make a pass halfway along the edge of the carpet.
- 8. As you make passes, repeat one inch of the area already cleaned.
- 9. Make more passes until all of the room is cleaned.



CAUTION:

Clarke will not be held liable for damage to the carpet, or poor results because of the operator's lack of ability.

MAINTENANCE



WARNING: Maintenance and repairs must

be done by authorized personnel only. Keep all fasteners tight. Use only genuine Clarke parts.

WARNING: Do not operate this machine unless it is completely assembled.

NOTE: For maintenance of the floor tools read the manual given with the tools.

After Each Use of the Machine

- 1. Remove unused cleaning solution from the solution tank, by placing the end of the vacuum hose in the solution tank. Start the vacuum motor. Stop the motor when the tank is empty.
- 2. To prevent damage to the valves and jets, flush one gallon of clean water through the solution system and the tools.
- 3. Disconnect the power cord from the outlet.
- 4. For optimum performance, flush the machine with clear water at the end of each working day. Once a month, minimum, run a flushing compound through the machine to cut any alkaline build-up that may have formed.
- 5. Lubricate wheels, casters, and hinges as needed. The pump and vacuum motor do not require any maintenance.
- 6. The body can be cleaned with a general allpurpose detergent and protected with a silicone type product. The quick-disconnects should be lubricated with silicone, also.
- 7. Prior to each job, inspect the holding tank filter and the recovery tank float filter for hair and dirt. The drain valve should also be inspected regularly and kept free of any debris or build-up.
- 8. Drain the recovery tank and dispose of properly.
- 9. Rinse the recovery tank with clean water.
- 10. Use a dry cloth to wipe the tools and both tanks, inside and out.
- 11. Apply a small amount of silicone lubricant to the quick-disconnect fittings. To prevent damage to the O-rings, do not use an oil lubricant.

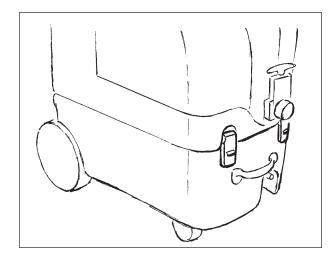


Figure 9a

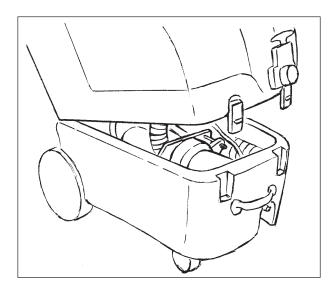


Figure 9b

MAINTENANCE(CONT)

How To Prevent Damage From Freezing Temperatures

To prevent damage from freezing temperatures follow this procedure:

- 1. Use the vacuum hose to remove all the solution from the clean solution tank.
- 2. Connect the solution hose to the extractor and a floor tool.
- 3. Put approximately 1 quart of antifreeze solution in the solution tank.
- 4. Put the switch for the pump in the "ON" position.
- 5. Put the end of the floor tool in the recovery pail.
- 6. Press the lever on the floor tool to activate the pump.
- 7. Make sure the solution runs through the system.
- 8. Release the lever on the floor tool to stop the pump.
- 9. Flush the antifreeze solution from the system before using the extractor.

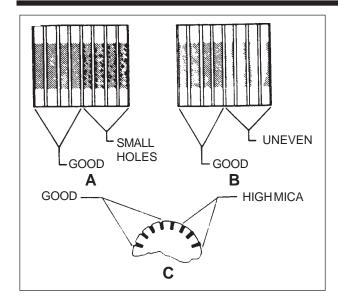
WARNING: Electrical repairs must be done by authorized personnel only.

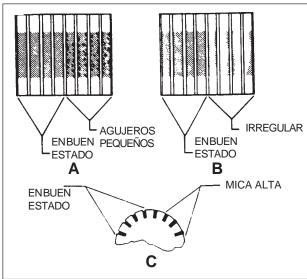
WARNING: After electrical repairs are done to the machine, the machine must be tested for electrical safety.

<u>How To Get Access To The Pump and Vacuum</u> Motor

To get access to the pump and the vacuum motor, follow this procedure (see figures 9a & 9b):

- 1. Empty both tanks.
- 2. Unlatch tanks from base.
- 3. Tilt tanks back.
- 4. Disconnect hoses from tanks.
- 5. Open up for service.





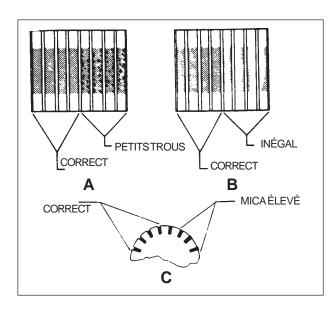


Figure 10

MAINTENANCE

Maintenance Of The Motor

This machine has a vacuum motor that uses carbon brushes. The carbon brushes in the motor must be checked every three months, or every 500 hours of operation, whichever comes first. If either of the brushes is shorter than 3/8 inch, replace both of the carbon brushes.

How To Check The Commutator And The Carbon Brushes

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WARNING:

Electrical inspections must be made by a person authorized to make electrical repairs.

To check the commutator and the carbon brushes follow this procedure:

- 1. Disconnect the power cord from the electrical outlet.
- 2. Empty both tanks.
- 3. Unlatch tanks from lower housing.
- 4. Lift the upper housing from the lower housing.
- 5. Disconnect the ground wire.
- 6. Remove the plastic motor cover.
- 7. Inspect the commutator. See figure 10. Take the machine to a Clarke authorized repair location if you see any of the following conditions:
 - a. Small holes in the surface of the commutator. See "A" in figure 11.
 - b. Uneven color. Look for an even dark brown color. Clean areas or very dark areas indicate a problem.
 - See "B" in figure 11.
 - c. High mica. The mica insulation must be lower than the commutator bars. See "C" in figure 11.
- 8. To check the carbon brush assemblies, remove the two screws from the holding bracket.
- 9. Remove the brackets.
- 10. Remove the carbon brush assemblies.
- 11. Check the carbon brush assembly. Replace both carbon brush assemblies if either carbon brush is shorter than 3/8 inch. If either brush is shorter than ½ inch, order replacement brushes. Be ready to replace both carbon brushes earlier than the normal inspection time.
- 12. Put the motor brushes in position.
- Using the two screws, install the bracket that holds the carbon brushes.
- 14. Install the plastic motor cover.
- 15. Connect the ground wire.
- 16. Install the motor holding bracket.
- 17. Install the lower housing to the upper housing.

HOW TO CORRECT PROBLEMS IN THE MACHINE

Problem	Cause	Action
The machine will not run.	1. The machine has no power.	 Make sure the machine is connected to the correct frequency and voltage, and all connec- tions are tight.
		Make sure the plug is in the electrical outlet.
	2. The power cord is damaged.	Contact an authorized service person to replace the cord.
There is no suction.	1. The vac motor does not run.	Put the switch for the vacuum in the "I" position.
	2. The vac motor switch is defective.	2. Contact an authorized service person.
	3. There is a loose motor connection.	3. Contact an authorized service person.
	There is an obstruction in the vacuum hose.	4. Remove the obstruction.
	5. The recovery tank is full.	5. Remove the liquid from the tank.
	6. The dome gasket is worn or damaged.	Contact an authorized service person to replace gasket.
	7. The internal vac hose is damaged or stopped.	7. Contact an authorized service person.
	8. The dome is damaged	8. Replace the dome.
	9. The motor brushes are worn.	Replace the motor brushes.
	10. Drain gate is open.	10. Close drain gate.
	11. Seals are damaged.	11. Contact an authorized service person.
There is no pressure.	1. The switch is in the "OFF" position.	1. Put the switch in the "I" position.
	2. The pressure switch is damaged.	2. Contact an authorized service person.
	3. The pump motor will not run.	3. Contact an authorized service person.
	4. The pump motor brushes are worn.	4. Contact an authorized service person.
	The quick disconnect fitting is dirty or stopped.	5. Contact an authorized service person.
	6. The solution hose is bent.	6. Straighten the hose. Replace if damaged.
	7. The pump is worn.	7. Contact an authorized service person.
	8. The pump switch is defective.	8. Contact an authorized service person.
	9. The pump connections are loose.	9. Contact an authorized service person.
	10.The pump intake and oulet valves are worn.	10.Contact an authorized service person.
	11.The thermol protector is open.	11.Contact an authorized service person.
	12.The solution tank is empty.	12.Fill the solution tank.
	13.The intake screen is dirty.	13.Clean the screen.
	14. The rectifier in the pump motor is bad.	14.Contact an authorized service person.
The solution tank leaks.	1. The tank is damaged.	Contact an authorized service person.
The recovery tank overflows.	1. The float is dirty or damaged.	Clean the float. Replace if damaged. Dut defermed in the columns. Order B/N 200420.
	There is too much foam. The float gasket is dirty or damaged.	 Put defoamer in the solution. Order P/N 398420. Clean the gasket. Replace if damaged.

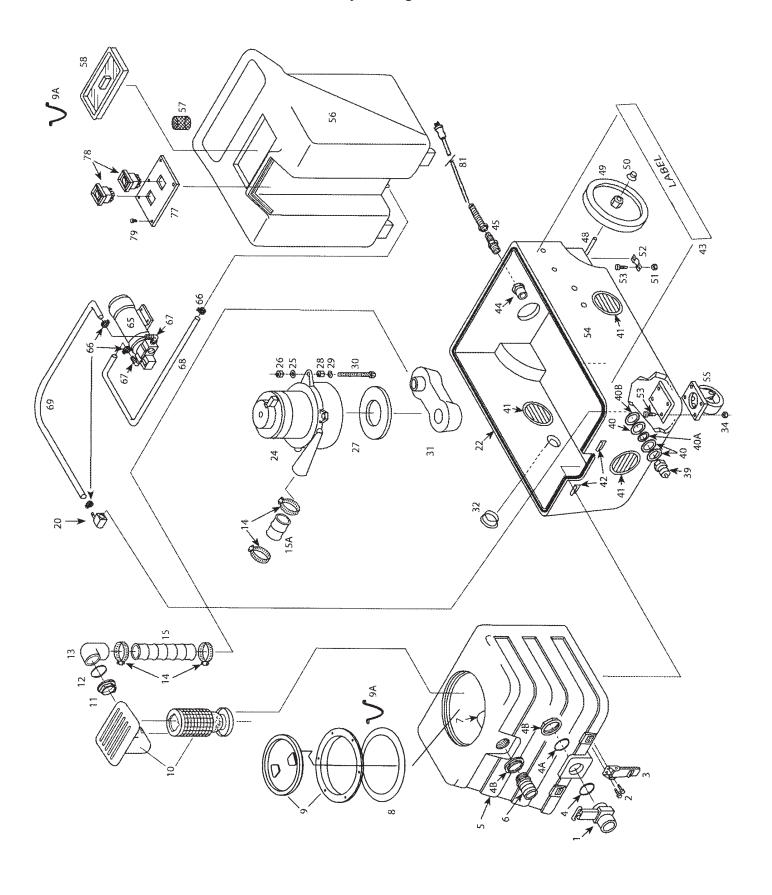
Clarke®

BEXT®-100, 100H, 150H, 300HV Extractor

Section II

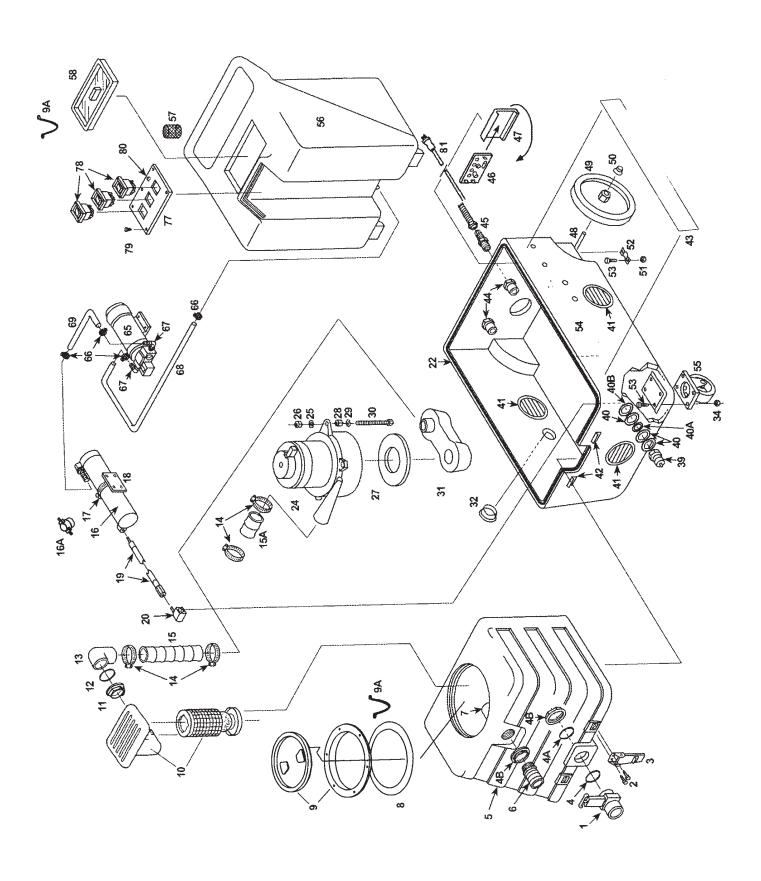
Parts and Service Manual

Clarke® BEXT®-100, 120V Assembly Drawing 7/06



Clarke® BEXT®-100,120V Assembly Drawing Parts List 7/06

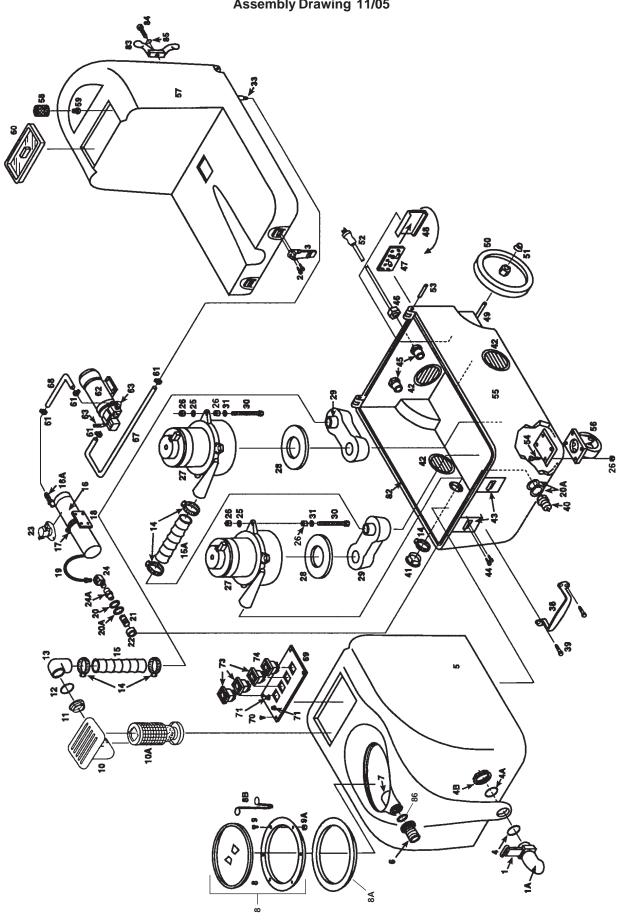
Ref #	Part No.	Description	Qty	Ref#	Part No.	Description	Qty
1	53876A	Drain Gate	1	34	80335A	Lock Nut, 1/4-20	8
2	80331A	Screw, 8-32 x ⁵ / ₈ "	4	39	53885A	Quick Disconnect, Male 1/4 PT	1
3	52636A	Latch	2	40	53895A	Washer, Fiber	3
4	53877A	O-Ring	1	40A	54066A	Bushing, Fiber	1
4A	53878A	O-Ring	1	40B	80341A	Washer, Flat Brass	1
4B	80332A	Nut, Aluminum, ½"	1	41	52763A	Louver 3", includes screws	3
5	53861A	Vacuum Tank Complete	1	42	52675A	Strike, Latch	2
6	53879A	Hose Bar, 1½"	1	43		Label	2
7	53880A	Elbow, PVC	1	44	52675A	Reducer, Bushing PVC	1
8	53881A	Gasket, Lid Vacuum	1	45	53798A	Cord, Retainer Flexible	1
9	53882A	Lid, Clear 6" w/ring	1	48	53898A	Axle, Rod 17"	1
9A	53883A	Chain Assembly, for lids	2	49	53867A	Wheel, 8"	2
10	53884A	Manifold, with Ball/Cage	1	50	53899A	Axle, Cap	2
11	80332A	Nut, Aluminum 1½"	1	51	80335A	Lock Nut, 1/4-20	4
12	53877A	O-Ring	1	52	54069A	Bracket, Axle	2
13	53880A	Elbow, PVC	1	53	80343A	Bolt, 1/4-20 x 3/4"	12
14	53887A	Hose Clamp	4	54	53863A	Base, Black	1
15	53888A	Hose, 2" x 21"	1	55	53866A	Castor, 3"	2
15A	53889A	Hose, 2" x 2"	1	56	53862A	Holding Tank, Blue	1
20	53893A	Elbow	1	57	53872A	Filter, 40 Mesh SS	1
22	53894A	Gasket	1	58	54070A	Lid, Tinted	1
24	40954A	Vacuum Motor, 3-Stage	1	65	53869A	Pump, 100PSI	1
25	80334A	Washer, Flat	3	66	54071A	Hose Clamp	4
26	80335A	Lock Nut, ¼-20	3	67	54072A	Hose Barb, Elbow	2
27	53896A	Gasket, Vacuum	1	68	54073A	Hose, Pump Inlet ³ / ₈ ID x 13"	1_
28	80336A	Nut, Finish	3	69	54074A	Hose, Pump Outlet ID 3/8 x 22"	1
29	80334A	Washer, Flat	3	77	53868A	Switch Plate	1
30	80338A	Bolt, 1/4-20 x 5"	3	78	52842A	Switch, Rocker w/cover	2
31	53897A	Manifold, Vac Motor, Black	1	79	80345A	Screw, #4 x 3/8"	5
32	52672A	Exhaust Flange	1	81	40637A	Cord, Power 12-3, 25"	1



Clarke® Bext®-100H, 120V Assembly Drawing Parts List 7/06

Ref#	Part No.	Description	Qty	Ref#	Part No.	Description	Qty
1	53876A	Drain Gate	1	34	80335A	Lock Nut, 1/4-20	8
2	80331A	Screw, 8-32 x ⁵ / ₈ "	4	39	80340A	Quick Disconnect, Male 1/4 PT	1
3	52636A	Latch	2	40	53895A	Washer, Fiber	3
4	53877A	O-Ring	1	40A	54066A	Bushing, Fiber	1
4A	53878A	O-Ring	1	40B	80341A	Washer, Flat Brass	1
4B	80332A	Nut, Aluminum, 1/2"	1	41	52763A	Louver 3", includes screws	3
5	53861A	Vacuum Tank Complete	1	42	52675A	Strike, Latch	2
6	53879A	Hose Bar, 1½"	1	43	71194A	Label	2
7	53880A	Elbow, PVC	1	44	52675A	Reducer, Bushing PVC	1
8	53881A	Gasket, Lid Vacuum	1	45	53798A	Cord, Retainer Flexible	1
9	53882A	Lid, Clear 6" w/ring	1	46	54067A	Dual Cord Circuit Board	1
9A	53883A	Chain Assembly, for lids	2	47	54068A	Snap Track, Circuit Board Mounting	1
10	53884A	Manifold, with Ball/Cage	1	48	53898A	Axle, Rod 17"	1
11	80332A	Nut, Aluminum 1½"	1	49	53867A	Wheel, 8"	2
12	53877A	O-Ring	1	50	53899A	Axle, Cap	2
13	53880A	Elbow, PVC	1	51	80335A	Lock Nut, 1/4-20	4
14	53887A	Hose Clamp	4	52	54069A	Bracket, Axle	2
15	53888A	Hose, 2" x 21"	1	53	80343A	Bolt, 1/4-20 x 3/4"	12
15A	53889A	Hose, 2" x 2"	1	54	53863A	Base, Black	1
16	53890A	Heat Exchanger, complete	1	55	53866A	Castor, 3"	2
16A		See Misc. Parts List		56	53862A	Holding Tank, Blue	1
17	53891A	Hose Clamp	1	57	53872A	Filter, 40 Mesh SS	1
18	53892A	Bracket, Heater Mounting	1	58	54070A	Lid, Tinted	1
19	53870A	Hose, Heater to outlet	1	65	53869A	Pump, 100PSI	1
20	53893A	Elbow	1	66	54071A	Hose Clamp	4
22	53894A	Gasket	1	67	54072A	Hose Barb, Elbow	2
24	40954A	Vacuum Motor, 3-Stage	1	68	54073A	Hose, Pump Inlet 3/8 ID x 13"	1
25	80334A	Washer, Flat	3	69	54074A	Hose, Pump Outlet ID 3/8 x 48"	1
26	80335A	Lock Nut, 1/4-20	3	70	80344A	Lock Nut	
27	53896A	Gasket, Vacuum	1	77	54075A	Switch Plate	1
28	80336A	Nut, Finish	3	78	53842A	Switch, Rocker w/cover	3
29	80334A	Washer, Flat	3	79	80345A	Screw, #4 x 3/8"	
30	80338A	Bolt, 1/4-20 x 5"	3	80	54076A	Light, Green	1
31	53897A	Manifold, Vac Motor, Black	1	81	40637A	Cord, Power 12-3, 25"	2
32	52672A	Exhaust Flange	1	NI	54077A	Heat Repair Kit (incl. cutout & thermo switch)	

Clarke® Bext®-150H, 120V Assembly Drawing 11/05



Clarke® BEXT®-150H, 120V Parts List 3/06

Ref #	Part No.	Description	Qty	Ref #	Part No.	Description	Qty
1	59721A	Valve-Drain	1	39	962098	Screw, ¼ -20 x 3/4	1
1A	53606A	Elbow-45 Degree, Drain	1 1	40	52840A	Quick Disconnect	1
2	962929	Screw, 10-32 x 3/8	1 1	41	52672A	Flange, Exhaust	1
3	52636A	Latch, Tank	2	42	52673A	Louvre, (includes hardware)	3
4	837304	O-Ring (Small)	1 1	43	52674A	Strike, Latch	2
4A	00.00.	C rung (critain)	'	44	0207 171	otino, Latori	-
4B	920797	Nut Drain Valve Lock	2	45	52675A	Reducer, PVC	2
5	30322A	Tank, Recovery	1	46	52676A	Retainer, Cord	2
*6	690212	Adaptor AsmVac Hose	1 1	47	40661A	Sensor, Dual Cord	1
*7	692701	Elbow - 90 Degree	1 1	48	52664A	Snap Track, 4"	1
8	55674A	Lid 6" Clear	1	49	61388A	Axle, Wheel	1
8A	34288A	Gasket**	1	50	52471A	Wheel, 10"	1
8B	692409	Chain-Cover	1 1	51	920346	Axle, Cap	2
9	85613A	Screw, 8-32 x 7/8 Pan Hd	1 1	52	40637A	Cord, Power	1
9A	81109A	Nut, Hex Elastic Lock	1 1	53	61339A	Pin, Hinge	2
10	52806A	Vac Manifold Asm. (incl. 10, 10A,	1 1	54	170915	Screw, ½-20 x 3/4	8
		11, 12, 13)		55	30324A	Housing, Lower	1
11	920797	Nut Drain Valve	2	56	52470A	Castor, 4" Grey	2
12			-	57	30195A	Holding Tank	1
13	30323A	Elbow, Vac Manifold	1 1	58	52841A	Filter, Inlet	1
14	872010	Hose clamp	1 1	59	52677A	Adaptor, Inlet Screen	1
15	52666A	Hose Vacuum Tank	1	60	53558A	Solution, Tank Lid	1
15A	52667A	Hose, Vacuum to Manifold	1 1	61	50248A	Hose Clamp	1
16	52566A	Heater, Complete	1 1	62	51206A	Pump, Solution	1
16A	732870	Hosebarb	1 1	63	170030	Hosebarb, 3/8 PT x 1/4 Barb	1
17	. 020. 0	110000010	'	64	170000	110005a15, 701 1 X 74 Ba15	Ι.
18			+-	65			
19	30323A	Hose, Braided Heater	1 1	66			
20	52993A	Washer, Brass	1 1	67	30326A	Hose, Inlet	1
20A	52992A	Washer, Fibre	i	68	962454	Hose, Outlet	1
21	02002/1	Nipple, ¼ NPT SS	i	69	52678A	Switch Plate	1
22	52995A	Busing, Fiber	1	70	0207071	Cinton Flato	<u> </u>
23	52834A	Thermostat, Heater	1 1	71	52668A	Light, Green	2
24	53639A	Elbow, Brass	i	72	0200071	Light, Groon	-
24A	0000071	Coupling	i	73	52842A	Switch, Vacuum / Pump	3
25	87026A	Washer 1/4	6	74	52843A	Switch, Pump	1
26	81102A	Nut, ¼ -20	1	75	020 .07 .		
27	44906A	Motor, Vac	1	76			
27A	40833A	Brush, Carbon	2	77			
28	30197A	Gasket, Vac Motor	2	78			
29	52670A	Vacuum, Manifold	2	79			
30	85742A	Screw, 1/4-20	6	80			
31	87026A	Washer	6	81			
32				82	30635A	Gasket, Base	1
33	170030	Hosebarb	1	83	52679A	Cord Wrap	2
34			'	84	962454	Screw, 1/4-20 x 1	2
35			+	85	002101	03.311, 74 20 X 1	
36				*86	693406	Gasket	1
37					1000100	- Cashot	
38	52671A	Handle, Lifting	1				
	1 0 - 0 / 1 / 1	· · · · · · · · · · · · · · · · · · ·					

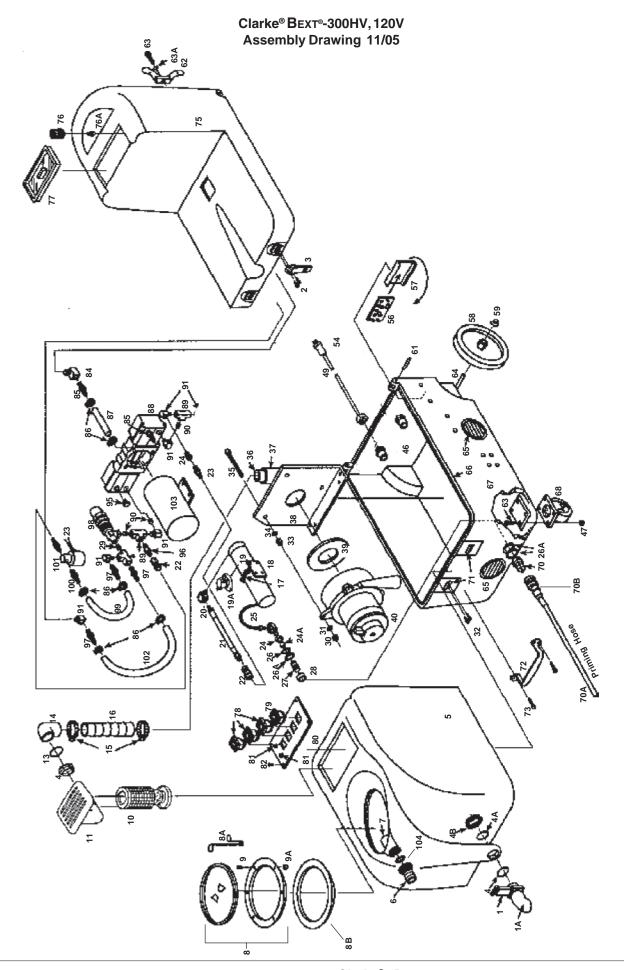
^{*} Items 6, 7 & 86 must be ordered as a set when replacing any original #6 Adapter and 3 - 85522A Screws

Part#	Miscellaneous Assemblies/Parts
52847A	Heat Repair Kit w/ Thermostat and Cutout Asm.

^{1 - 962109} Screw

^{1 - 920296} Nut

^{**} Item 8A must be used with any lid replacement.



Clarke® BEXT®-300HV, 120V Parts List 3/06

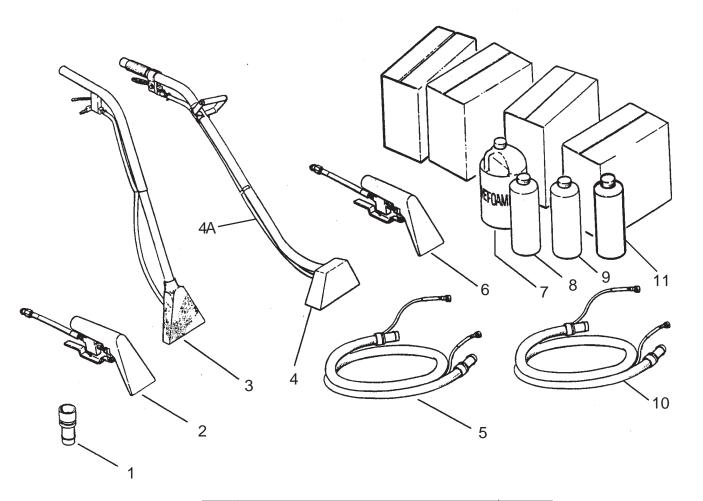
Ref #	Part No.	Description	Qty	Ref#	Part N	o. Description	Q
1	59721A	Drain Gate (see misc)	1	54			
1A	53606A	Spout, Drain Gate	1	55			
2	962929	Screw, 10-32 x 3/8, SS	4	56	40661		'
3	52636A	Latch	2	57	52664	· · · · · · · · · · · · · · · · · · ·	'
4	837304	O-Ring (small)	3	58	52471		:
4A			_	59	92034		:
4B	920797	Drain Valve	2	61	61339		
5	30322A	Tank, Recovery	1	62	52679		
*6	690212	Adaptor		63	17091		
*7	692701	PVC Elbow, 1½"		63A	87026		
8	55674A	Lid & Ring, 6"	1	64	61338		
A8	692409	Chain Assemly, 8"	1	65	52673		
8B	34288A	Gasket**	1	66	30635		╄
9	85613A	Screw, 8-32 x ⁷ / ₈ "		67	40750		
9A	81109A	Nut, 8/32, SS Nylock		68	52470		
10	500004	Marintald Incl. Dall 9 Com-	,	69	=00.40	Bolt, 1/4-20 x 3/4"	
11	52806A	Vacuum Mainfold, Incl. Ball & Cage	1	70	52840		
4.0		(includes 10, 10A, 11, 12 and 13)		70A	61314		
12				70B	52565		╀
13				71	52674		
14	070040	Hara Olaman		72	52671		
15	872010	Hose Clamp	2	73	96209		
16	52665A	Hose, Rubber		75	30338		
17	52365A	Hose Clamp	_	76	52841		
18	52566A	Heat Exchanger Mount	1	76A	52677		\perp
19		Heat Exchanger, Complete	1	77	53558		
19A	52834A	Thermostat, Heat Switch (see misc)	1	78	52842		
20	C4250A	Hann 26" High Drangers 1/ LD	,	79	52843		
21	61350A	Hose, 26", High Pressure ¼ I.D.	1	80	52678		
22	52988A	Quick Disconnect, Open 1/8", PT	2	81	52668		
23	52989A	Quick Disconnect, Male, 1/8" PT	2	82	50000	Screw, #4 x 3/8 SS	╀
24	851144	Bushing Brass, ¼ MPT x 1/8 FPT	1	84	53639		
24A	52991A	Coupling	4	85	52171		
25 26	30323A 52992A	Hose, Braided, SS Washer, Brass	1	86	50248		
26A	52992A 52993A	Washer, Fiber		87		Hose, Pump Inlet, ½" x 14"	
20A 27	52993A	Washer, Fiber		88	17006	Pump, No Fittings (see misc.)	
28	52995A	Bushing, Fiber	1	89	17006 17008		╁
20 29	32993A	bushing, Fiber	'	90 91	17008		
30		Lock Nut, 5/16"		92	17004	Quick Disconnect, Male ¼ PT	
31		Washer, ⁵ / ₁₆ "		93		Quick Disconnect, Male /4 FT	
32		Screw, 10-32 x 5/8", SS		93			
33		Nut, 5/16"		95	69680	1 Plug, Brass	╁
34		Washer, 5/16"		96	69750		
35		Bolt, ⁵ / ₁₆ x 4"		97	17003		
36	52997A	PVC Sleeve, 3"		98	53173		
37	52997A 52998A	PVC Elbow, 90°, 1½", Slip		99	53173		
38	61351A	Mount Plate	1	100	69020		+
39	52835A	Gasket (Vacuum Motor)		100	52844	*	
40	52836A	Vacuum Motor (120V)		101	53175		
41	020007	(120V)	'	102	52837		
42				*104	69340		
43				104	09340	O Jasket, Owlvel	
44				Dort #		Miscellaneous Assemblies/ Parts	_
46		PVC Reducer		Part #			_
40 47		Lock Nut		52848		Bypass Rebuild Kit Valve/O-Ring Kit	
4 <i>1</i> 49	40637A	Power Cord, 12/3, 25 ft.	2	52846/ 52849	Ā	Valve/O-Ring Kit Plunger & Seals Kit	
	4003/A	Fower Coru, 12/3, 23 II.		53389		Pump Complete (no motor or solenoid)	
50 51	E2676 A	Cord Retainer Water Tight	2			Pump Complete with Solenoid	
51	52676A	Cord Retainer, Water Tight	2			Pump & Motor Complete with Solenoid	
52				52845/	A	Bearing/Cam Asm. (for pump) Drain Gate Complete w/ O-Rings, Nut & Spou	
53		I and the second				THE PROPERTY OF THE PROPERTY O	

^{#6} Adapter and: 3 - 85522A Screws, 1 - 962109 Screw, 1 - 920296 Nut.

^{**} Item 8B must be used with any lid replacement.

Clarke® BEXT®-100 Accessories Drawing & Parts List 3/06

WARNING: Do not use <u>Bext 100</u> accessories on heated units (Bext 100H, 150H & 300HV). Injury to operator or bystanders could occur. Damage to the machine could occur.

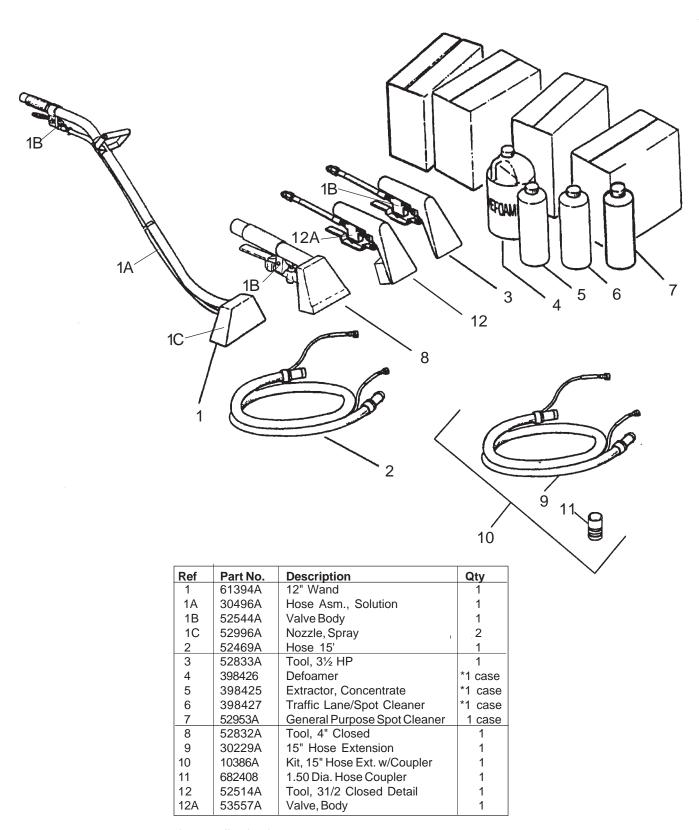


Ref	Part No.	Description	Qty
1	30108A	Adaptor, 2" to 1½	1
2	59231A	RM-4P Tool Assembly	1
3	59230A	RM-8P Tool Assembly	1
4	61393A	RM-12M Tool Assembly	1
4A	30496A	Hose Asm., Squeegee	1
5	59232A	Hide-A- Hose 10'	1
6	59228A	RM-4M Tool Assembly	1
7	398426	Defoamer	*1 case
8	398425	Extractor, Concentrate	*1 case
9	398427	Traffic Lane/Spot Cleaner	*1 case
10	55183A	Hide-A-Hose 20'	1
11	52953A	General Purpose Spot Cleaner	1 case
ASM	55173A	4" Hand Tool and 10' Hose Asm.	1
NI	682408	Coupler, 1½" Hose Connector	1

^{* 4, 1} gallon bottles

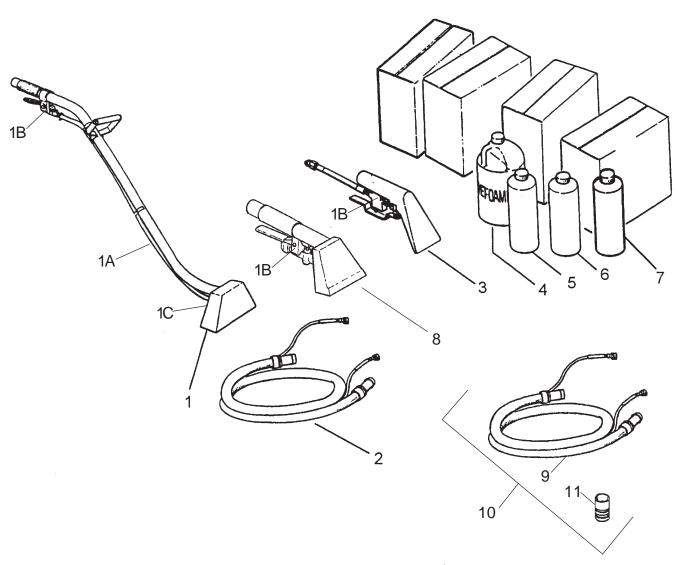
NOTE: u indicates a change has been made since the last publication of this manual.

Clarke® BEXT® 100H, 150H Detailer Accessories Drawing & Parts List 6/04



^{* 4, 1} gallon bottles

Clarke®
BEXT® 300HV Accessories
Drawing & Parts List 1/04



Ref	Part No.	Description	Qty
1	61395A	12" Wand	1
1A	30496A	Hose Asm., Solution	1
1B	52544A	Valve Body	1
1C	52996A	Nozzle, Spray	2
2	52469A	Hose 15'	1
3	52833A	Tool, 31/2 HP	1
4	398426	Defoamer	*1 case
5	398425	Extractor, Concentrate	*1 case
6	398427	Traffic Lane/Spot Cleaner	*1 case
7	52953A	General Purpose Spot Cleaner	1 case
8	52832A	Tool, 4" Closed	1
9	30229A	15" Hose Extension	1
10	10386A	Kit, 15" Hose Ext. w/Coupler	1
11	682408	1.50 Dia. Hose Coupler	1

^{* 4, 1} gallon bottles

Clarke® BEXT®-150H, 120V Wiring Diagram 10/01

